# **Assignment: Variable Practice**

Instructions:

1. Create a new JavaScript file and save it as "variables.js".

2. Write JavaScript code to complete the tasks described below.

3. Test your code by running the "variables.js" file in a web browser or using a JavaScript console.

Tasks:

1. Declare a variable called "age" and assign your age to it.

2. Declare a variable called "name" and assign your name to it.

3. Declare a variable called "isStudent" and assign a boolean value (true or false) indicating if you are a student or not.

4. Declare a variable called "birthYear".

5. Print the following information using console.log():

- Your name and age: "My name is [name] and I am [age] years old."

- Whether you are a student or not: "I am a student: [isStudent]."

- Your birth year: "I was born in [birthYear]."

# **2. Assignment: Data Type Practice**

Instructions:

1. Create a new JavaScript file and save it as "dataTypes.js".

2. Write JavaScript code to complete the tasks described below.

3. Test your code by running the "dataTypes.js" file in a web browser or using a JavaScript console.

Tasks:

1. Declare a variable called "name" and assign your name to it (as a string).

2. Declare a variable called "age" and assign your age to it (as a number).

3. Declare a variable called "isStudent" and assign a boolean value (true or false) indicating if you are a student or not.

4. Declare a variable called "hobbies" and assign an array containing at least three of your hobbies.

5. Declare a variable called "address" and assign an object with properties "street", "city", and "country" representing your address.

6. Print the following information using console.log():

- Your name: "My name is [name]."

- Your age: "I am [age] years old."

- Whether you are a student or not: "I am a student: [isStudent]."

- Your hobbies: "My hobbies are [hobbies]."

- Your address: "I live at [street], [city], [country]."

Example Output:

My name is John.

I am 25 years old.

I am a student: true.

My hobbies are reading, painting, and hiking.

I live at 123 Main Street, Cityville, Countryland.

# **3. Assignment: Operator Practice**

Instructions:

1. Create a new JavaScript file and save it as "operators.js".

2. Write JavaScript code to complete the tasks described below.

3. Test your code by running the "operators.js" file in a web browser or using a JavaScript console.

Tasks:

1. Declare two variables called "num1" and "num2" and assign them any numeric values.

2. Use the addition operator to calculate the sum of "num1" and "num2". Store the result in a variable called "sum".

3. Use the subtraction operator to calculate the difference between "num1" and "num2". Store the result in a variable called "difference".

4. Use the multiplication operator to calculate the product of "num1" and "num2". Store the result in a variable called "product".

5. Use the division operator to calculate the quotient of "num1" divided by "num2". Store the result in a variable called "quotient".

6. Use the modulus operator to calculate the remainder when "num1" is divided by "num2". Store the result in a variable called "remainder".

7. Print the following information using console.log():

- The sum of num1 and num2: "The sum is [sum]."

- The difference between num1 and num2: "The difference is [difference]."

- The product of num1 and num2: "The product is [product]."

- The quotient of num1 divided by num2: "The quotient is [quotient]."

- The remainder when num1 is divided by num2: "The remainder is [remainder]."

# **4. Assignment: If-Else Practice**

Instructions:

1. Create a new JavaScript file and save it as "ifElse.js".

2. Write JavaScript code to complete the tasks described below.

3. Test your code by running the "ifElse.js" file in a web browser or using a JavaScript console.

Tasks:

1. Declare a variable called "temperature" and assign it a numeric value representing the current temperature.

2. Write an if-else statement to check if the temperature is greater than or equal to 30 degrees Celsius.

- If the temperature is greater than or equal to 30, print "It's a hot day!" using console.log().

- Otherwise, print "It's a normal day!" using console.log().

3. Declare a variable called "isRaining" and assign it a boolean value (true or false) indicating if it's raining or not.

4. Write an if-else statement to check if it's raining.

- If it's raining, print "Don't forget your umbrella!" using console.log().

- Otherwise, print "Enjoy your day!" using console.log().

5. Declare a variable called "time" and assign it a numeric value representing the current hour of the day (in 24-hour format).

6. Write an if-else statement to check the time of the day.

- If the time is between 6 AM and 12 PM (inclusive), print "Good morning!" using console.log().

- If the time is between 12 PM and 6 PM (inclusive), print "Good afternoon!" using console.log().

- If the time is between 6 PM and 12 AM (inclusive), print "Good evening!" using console.log().

- Otherwise, print "Good night!" using console.log().

\*\*\* Submit your all file as a pdf once you have completed the tasks. \*\*\*